

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION APPLICATION PROCESSING AND CALCULATIONS	PAGE 1	PAGES 12
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PERMIT TO OPERATE ANALYSIS

FACILITY MAILING ADDRESS

SA Recycling LLC dba Adams Steel
3200 East Frontera Street
Anaheim, CA 92806

Company ID: 153095 - Title V

EQUIPMENT LOCATION

SAME

EQUIPMENT DESCRIPTION

APPLICATION NO. 482318 - PERMIT TO OPERATE

SCRAP METAL SEPARATION AND RECOVERY SYSTEM CONSISTING OF:

A. IN-FEED AND PRIMARY MATERIAL SIZING AND SEPARATION SUBSYSTEM:

1. IN-FEED HOPPER.
2. BELT CONVEYOR, UNTF1-1, 3'-0" W. X 20'-0" L., 10 HP.
3. BELT CONVEYOR, UNTF1-2, 3'-0" W. X 20'-0" L., 10 HP.
4. BELT CONVEYOR, UNBC1, 3'-0" W. X 65'-0" L., 30 HP.
5. BELT CONVEYOR, UNBC2, 3'-0" W. X 15'-0" L., 15 HP.
6. TROMMEL SCREEN, FTR1 & MTR1, 9'-0" DIA. X 50'-0" L., 70 HP.
7. BELT CONVEYOR, OBC1, 3'-0" W. X 76'-0" L., 15 HP.
8. BELT CONVEYOR, OBC2, 3'-0" W. X 42'-0" L., 15 HP.
9. BELT CONVEYOR, OBC3, 3'-0" W. X 103'-0" L., 15 HP.
10. BELT CONVEYOR, MBC1, 4'-0" W. X 21'-0" L., 10 HP.
11. BELT CONVEYOR, MBC2, 3'-0" W. X 53'-0" L., 15 HP.
12. BELT CONVEYOR, AFBC1, 3'-0" W. X 84'-0" L., 15 HP.
13. BELT CONVEYOR, AFBC2, 3'-0" W. X 45'-0" L., 15 HP.
14. BELT CONVEYOR, AFBC3, 3'-0" W. X 80'-0" L., 15 HP.
15. SHAKER, AFVC1, 6'-0" W. X 30'-0" L., 25 HP.
16. BELT CONVEYOR, FBC1, 15'-0" W. X 34'-0" L., 15 HP.
17. BELT CONVEYOR, FBC2, 15'-0" W. X 45'-0" L., 15 HP.
18. BELT CONVEYOR, XFBC1, 3'-0" W. X 72'-0" L., 15 HP.
19. BELT CONVEYOR, XFBC2, 3'-0" W. X 128'-0" L., 20 HP.

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B. MIDSIZE PROCESSING SUBSYSTEM:

- 20. SHAKER, MVC1-A, 6'-0" W. X 8'-0" L., 4 HP.
- 21. SHAKER, MVC1-B, 6'-0" W. X 8'-0" L., 4 HP.
- 22. BELT CONVEYOR, MBC3-A, 3'-0" W. X 60'-0" L., 20 HP.
- 23. SHAKER, MVC2-A, 8'-0" W. X 8'-0" L., 4 HP.
- 24. MAGNETIC SEPARATOR, TMP-A, 1'-8" DIA. X 6'-8" L., 3 HP.
- 25. EDDY CURRENT SEPARATOR, MEC1-A, 7'-0" W. X 8'-0" L., 3 HP.
- 26. BELT CONVEYOR, MBC4, 5'-0" W. X 70'-0" L., 15 HP.
- 27. BELT CONVEYOR, MBC5, 3'-0" W. X 40'-0" L., 15 HP.
- 28. BELT CONVEYOR, MBC8, 3'-0" W. X 45'-0" L., 15 HP.
- 29. BELT CONVEYOR, MBC3-B, 3'-0" W. X 40'-0" L., 15 HP.
- 30. BELT CONVEYOR, TBC6, 3'-0" W. X 25'-0" L., 10 HP
- 31. SHAKER, MVC2-B, 8'-0" W. X 8'-0" L., 4 HP.
- 32. MAGNETIC SEPARATOR, TMP-B, 1'-8" DIA. X 6'-8" L., 3 HP.
- 33. EDDY CURRENT SEPARATOR, MEC1-B, 7'-0" W. X 8'-0" L., 3 HP.
- 34. EDDY CURRENT SEPARATOR, MEC1-C, 7'-6" W. X 9'-100" L., 5 HP.

C. MIDSIZE SENSING SUBSYSTEM:

- 35. SHAKER, MVC3-A, 8'-0" W. X 8'-0" L., 6 HP.
- 36. SHAKER, MVC3-B, 8'-0" W. X 8'-0" L., 6 HP.
- 37. RECOVERY SENSOR, MCS1-A, 8'-0" W. X 10'-0" L., 5 HP.
- 38. RECOVERY SENSOR, MCS1-B, 8'-0" W. X 10'-0" L., 5 HP.
- 39. RECOVERY SENSOR, MCS2-A, 8'-0" W. X 10'-0" L., 5 HP.
- 40. RECOVERY SENSOR, MCS2-B, 8'-0" W. X 10'-0" L., 5 HP.
- 41. BELT CONVEYOR, NFBC3, 2'-0" W. X 32'-0" L., 7.5 HP.
- 42. BELT CONVEYOR, NFBC8, 2'-0" W. X 17'-0" L., 7.5 HP.
- 43. BELT CONVEYOR, NFBC4, 2'-0" W. X 40'-0" L., 7.5 HP.
- 44. BELT CONVEYOR, NFBC5, 3'-0" W. X 39'-0" L., 15 HP.
- 45. BELT CONVEYOR, TBC4, REVERSING, 3'-0" W. X 32'-0" L., 15 HP.
- 46. BELT CONVEYOR, TBC7, 3'-0" W. X 40'-0" L., 15 HP.
- 47. BELT CONVEYOR, TBC9, 3'-0" W. X 26'-0" L., 15 HP.

D. MIDSIZE NON-FERROUS RECOVERY SUBSYSTEM:

- 48. SHAKER, NFVC1, 8'-0" W. X 10'-0" L., 6.4 HP.
- 49. RECOVERY SENSOR, MRS1-A, 8'-0" W. X 10'-0" L., 5 HP.
- 50. BELT CONVEYOR, NFBC6, 2'-0" W. X 24'-0" L., 7.5 HP.
- 51. BELT CONVEYOR, NFBC7, 2'-0" W. X 12'-0" L., 7.5 HP.

E. FINES PROCESSING SUBSYSTEM:

- 52. TWIN BELT CONVEYOR, FSF1-A/FSF1-B, 2'-0" W. X 6'-0" L. EACH, 13 HP.
- 53. SHAKER, FVC2-A, 5'-0" W. X 8'-0" L., 4 HP.
- 54. SHAKER, FVC2-B, 5'-0" W. X 8'-0" L., 4 HP.
- 55. DYNAMIC SENSOR, FDS1-A, 5'-0" W. X 8'-0" L., 5 HP.

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- 56. DYNAMIC SENSOR, FDS1-B, 5'-0" W. X 8'-0" L., 5 HP.
- 57. EDDY CURRENT, FDC1-A, 5'-0" W. X 8'-0" L., 10 HP.
- 58. EDDY CURRENT, FDC1-B, 5'-0" W. X 8'-0" L., 10 HP.
- 59. MAGNETIC SEPARATOR, FTMP-A, 1'-6" DIA. X 5'-0" L., 3 HP.
- 60. MAGNETIC SEPARATOR, FTMP-B, 1'-6" DIA. X 5'-0" L., 1.5 HP.
- 61. SPLITTER ROLLER, F-A, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 62. SPLITTER ROLLER, F-B, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 63. SHAKER, FVC3-A, 8'-0" W. X 8'-0" L., 12 HP.
- 64. SHAKER, FVC3-B, 8'-0" W. X 8'-0" L., 12 HP.
- 65. BELT CONVEYOR, FBC3, 2'-0" W. X 38'-0" L., 10 HP.
- 66. BELT CONVEYOR, FBC4, 3'-0" W. X 70'-0" L., 15 HP.
- 67. BELT CONVEYOR, TBC8, 2'-0" W. X 25'-0" L., 10 HP.
- 68. BELT CONVEYOR, FC-1, 5'-0" W. X 8'-0" L., 10 HP.
- 69. SHAKER, FVC2-C, 8'-0" W. X 8'-0" L., 6 HP.
- 70. EDDY CURRENT, FEC2-C, 5'-0" W. X 8'-0" L., 7.5 HP.
- F. FINES SENSING SUBSYSTEM:
 - 71. RECOVERY SENSOR, FRS1-A, 8'-0" W. X 10'-0" L., 5 HP.
 - 72. RECOVERY SENSOR, FRS1-B, 8'-0" W. X 10'-0" L., 5 HP.
 - 73. BELT CONVEYOR, NFBC1, 2'-0" W. X 32'-0" L., 10 HP.
 - 74. BELT CONVEYOR, TBC1, 3'-0" W. X 32'-0" L., 15 HP.
 - 75. BELT CONVEYOR, TBC2, 3'-0" W. X 35'-0" L., 15 HP.
 - 76. BELT CONVEYOR, TBC7, 3'-0" W. X 40'-0" L., 15 HP.
 - 77. BELT CONVEYOR, TBC26, 2'-0" W. X 32'-0" L., 10 HP.
- G. STEEL RECOVERY SUBSYSTEM (VANOVER SYSTEM):
 - 78. BELT CONVEYOR, VSBC1, 3'-0" W. X 56'-0" L., 15 HP.
 - 79. BELT CONVEYOR, VSBC2, 3'-0" W. X 15'-0" L., 15 HP.
 - 80. TROMMEL TUBE, VSTR1, 4'-0" W. X 18'-0" L., 10 HP.
 - 81. CYCLONE SEPARATOR, VSBF1, WITH A 150 HP BLOWER.
 - 82. BELT CONVEYOR, VSBC3, 3'-0" W. X 14'-0" L., 7.5 HP.
 - 83. BELT CONVEYOR, VSBC6, 2'-0" W. X 94'-0" L., 15 HP.
 - 84. BELT CONVEYOR, VSBC5, 2'-0" W. X 14'-0" L., 5 HP.
- H. EXTRA FINES PROCESSING SUBSYSTEM:
 - 85. SCREW CONVEYOR, XFSF1, 1'-6" DIA. X 14'-8" L., 10 HP.
 - 86. SHAKER, XFVC2A, 5'-0" W. X 8'-0" L., 3.6 HP.
 - 87. SHAKER, XFVC2B, 5'-0" W. X 8'-0" L., 3.6 HP.
 - 88. DYNAMIC SENSOR, XFDS1-A, 5'-0" W. X 8'-0" L., 3.6 HP.
 - 89. DYNAMIC SENSOR, XFDS1-B, 5'-0" W. X 8'-0" L., 3.6 HP.
 - 90. EDDY CURRENT, XFEC1, 5'-0" W. X 8'-0" L., 1.8 HP.
 - 91. EDDY CURRENT, XFEC2, 5'-0" W. X 8'-0" L., 1.8 HP.
 - 92. MAGNETIC SEPARATOR, XFTMP-A, 1'-6" DIA. X 5'-0" L., 3 HP.

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- 93. MAGNETIC SEPARATOR, XFTMP-B, 1'6" DIA. X 5'-0" L., 4 HP.
- 94. SPLITTER ROLLER, XF-A, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 95. SPLITTER ROLLER, XF-B, 0'-5" DIA. X 5'-0" L., 0.25 HP.
- 96. BELT CONVEYOR, XFBC-2, 2'-0" W. X 16'-5" L., 10 HP.
- 97. BELT CONVEYOR, XFBC-2, 2'-0" W. X 6'-4" L., 7.5 HP.
- 98. SHAKER, XFVC2-C, 5'-0" W. X 8'-0" L., 3.6 HP.
- 99. EDDY CURRENT, XFEC2-C, 5'-0" W. X 8'-0" L., 5 HP.
- 100. BELT CONVEYOR, TBC11, 2'-0" W. X 34'-0" L., 10 HP.
- 101. BELT CONVEYOR, XFBC4, 2'-0" W. X 37'-0" L., 10 HP.
- 102. BELT CONVEYOR, TBC12, 1'-8" W. X 36'-0" L., 10 HP.
- I. FINES NON-FERROUS RECOVERY SUBSYSTEM:
 - 103. BELT CONVEYOR, NFBC2, 2'-0" W. X 51'-0" L., 10 HP
 - 104. SHAKER, NFVC2, 5'-0" W. X 8'-0" L., 6.4 HP.
 - 105. RECOVERY SENSOR, FRSD, 8'-0" W. X 10'-0" L., 10 HP.
- J. WIRE RECOVERY SUBSYSTEM:
 - 106. BELT CONVEYOR, TBC13, 3'-0" W. X 40'-0" L., 10 HP.
 - 107. BELT CONVEYOR, TBC14, 3'-0" W. X 34'-0" L., 10 HP.
 - 108. TWIN BELT CONVEYOR, TBC15 A&B, 2'-0" W. X 6'-0" L. EACH, 10 HP.
 - 109. SHAKER, TVC1-A, 8'-0" W. X 9'-0" L., 4 HP.
 - 110. SHAKER, TVC1-B, 8'-0" W. X 9'-0" L., 4 HP.
 - 111. BELT CONVEYOR, TBC16-A, 3'-10" W. X 255'-0" L., 5 HP.
 - 112. BELT CONVEYOR, TBC16-B, 3'-10" W. X 255'-0" L., 5 HP.
 - 113. BELT CONVEYOR, WBC1-A, 6'-0" W. X 11'-0" L., 10 HP.
 - 114. BELT CONVEYOR, WBC1-B, 6'-0" W. X 11'-0" L., 10 HP.
 - 115. ROLL BACK CONVEYOR, WBC2-A, 6'-0" W. X 15'-0" L., 10 HP.
 - 116. ROLL BACK CONVEYOR, WBC2-B, 6'-0" W. X 15'-0" L., 10 HP.
 - 117. BELT CONVEYOR, TBC17, 3'-0" W. X 31'-0" L., 10 HP.
 - 118. BELT CONVEYOR, TBC19, 2'-0" W. X 163'-0" L., 15 HP.
 - 119. BELT CONVEYOR, TBC20, 3'-0" W. X 31'-0" L., 10 HP.
 - 120. BELT CONVEYOR, TBC24, 3'-0" W. X 45'-0" L., 10 HP.
 - 121. BELT CONVEYOR, WBC3, 5'-0" W. X 37'-0" L., 11 HP.
 - 122. BELT CONVEYOR, WBC7, 5'-0" W. X 37'-0" L., 12 HP.
 - 123. CYCLONE SEPARATOR, TBF1-A, 125 HP, WITH A Z-BOX SEPARATOR.
 - 124. CYCLONE SEPARATOR, TBF1-B, 125 HP, WITH A Z-BOX SEPARATOR.
 - 125. ROTARY AIR LOCK, TRVI-A, 2'-3" DIA. X 1'-6" L., 2 HP.
 - 126. ROTARY AIR LOCK, TRVI-B, 2'-3" DIA. X 1'-6" L., 2 HP.
 - 127. BELT CONVEYOR, TBC25, 3'-0" W. X 34'-0" L., 15 HP.
 - 128. SHAKER, WVC2-A, 8'-0" W. X 9'-0" L., 4 HP.
 - 129. SHAKER, WVC2-B, 8'-0" W. X 9'-0" L., 4 HP.
 - 130. RECOVERY SENSOR, WCS1-A, 6'-3" W. X 10'-0" L., 5 HP.

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131. RECOVERY SENSOR, WCS2-A, 6'-3" W. X 10'-0" L., 5 HP.
132. RECOVERY SENSOR, WCS3-A, 6'-3" W. X 10'-0" L., 5 HP.
133. RECOVERY SENSOR, WCS4-A, 6'-3" W. X 10'-0" L., 5 HP.
134. RECOVERY SENSOR, WCS1-B, 6'-3" W. X 10'-0" L., 5 HP.
135. RECOVERY SENSOR, WCS2-B, 6'-3" W. X 10'-0" L., 5 HP.
136. RECOVERY SENSOR, WCS3-B, 6'-3" W. X 10'-0" L., 5 HP.
137. RECOVERY SENSOR, WCS4-B, 6'-3" W. X 8'-0" L., 5 HP.
138. BELT CONVEYOR, WBC16-A, 3'-0" W. X 2'-7" L., 15 HP.
139. BELT CONVEYOR, WBC16-B, 3'-0" W. X 2'-7" L., 15 HP.
140. BELT CONVEYOR, TBC22, 3'-0" W. X 26'-6" L., 10 HP.
141. BELT CONVEYOR, TBC23, 3'-0" W. X 57'-4" L., 15 HP.
142. PICKING BELT CONVEYOR, WBC17, 3'-0" W. X 66'-0" L., 15 HP.
143. BELT CONVEYOR, TBC21, 2'-0" W. X 17'-0" L., 10 HP.
144. BELT CONVEYOR, TBC27, 3'-0" W. X 19'-0" L., 10 HP.
145. BELT CONVEYOR, TBC28, 3'-0" W. X 42'-0" L., 10 HP.
146. BELT CONVEYOR, TBC28A, 3'-0" W. X 21'-0" L., 10 HP.
147. BELT CONVEYOR, TBC29, 3'-0" W. X 106'-0" L., 15 HP.
148. SHAKER, WVC1-C, 6'-6" W. X 8'-0" L., 4 HP.
149. CYCLONE SEPARATOR, TBF1-C, 100 HP, WITH A Z-BOX SEPARATOR.
150. ROTARY AIR LOCK, TRVI-C, 2'-3" DIA. X 1'-6" L., 2 HP.
151. SHAKER, WVC2-C, 6'-6" W. X 8'-0" L., 4 HP.
152. RECOVERY SENSOR, WCS1-C, 6'-3" W. X 10'-0" L., 5 HP.
153. RECOVERY SENSOR, WCS2-C, 6'-3" W. X 10'-0" L., 5 HP.
154. RECOVERY SENSOR, WCS3-C, 6'-3" W. X 10'-0" L., 5 HP.
155. RECOVERY SENSOR, WCS4-C, 6'-3" W. X 10'-0" L., 5 HP.
156. BELT CONVEYOR, WBC16-C, 3'-0" W. X 27'-6" L., 10 HP.
157. PICKING BELT CONVEYOR, WBC18, 3'-0" W. X 4'-6" L., 10 HP.
158. BELT CONVEYOR, TBC31, 3'-0" W. X 42'-0" L., 10 HP.
159. BELT CONVEYOR, TBC32, 2'-0" W. X 14'-0" L., 10 HP.
160. BELT CONVEYOR, TBC33, 2'-0" W. X 34'-2" L., 10 HP.
161. SHAKER, TVC2, 8'-0" W. X 8'-0" L., 7.8 HP TOTAL.
162. ROTARY AIR LOCK, TRVI-D, 2'-0" DIA. X 7'-0" L., 15 HP.
163. ASPIRATOR, TBF1-D, WITH A 50 HP BLOWER.
164. ROTARY AIR LOCK, TRV2-D, 4'-0" DIA. X 2'-10" L., 10 HP.
165. BELT CONVEYOR, TBC34, 2'-0" W. X 10'-2" L., 15 HP.
166. BELT CONVEYOR, TBC35, 2'-0" W. X 24'-0" L., 10 HP.
167. BELT CONVEYOR, TBC36, 3'-0" W. X 42'-2" L., 10 HP.
168. RECOVERY SENSOR, WCS1-D, 6'-3" W. X 10'-0" L., 5 HP.
169. RECOVERY SENSOR, WCS2-D, 6'-3" W. X 10'-0" L., 5 HP.
170. RECOVERY SENSOR, WCS3-D, 6'-3" W. X 10'-0" L., 5 HP.

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- 171. RECOVERY SENSOR, WCS4-D, 6'-3" W. X 10'-0" L., 5 HP.
- 172. BELT CONVEYOR, WBC16-D, 4'-0" W. X 40'-0" L., 10 HP.
- 173. BELT CONVEYOR, WBC19, 2'-0" W. X 28'-2" L., 10 HP.

HISTORY

Application No. 482318 was filed on May 2, 2008, as Class III permit to operate. This application was submitted with 7 additional applications, one of which was Application No. 482333, the Title V Permit Revision application. Due to the Permit Moratorium time constraints, the application subject to this evaluation was evaluated on its own. However all of the applications will be sent to EPA for their review under A/N 482333.

Complaints

- 192664, 8/10/07, Strong chemical cleaning odor. Please contact complainant.
No odors or dust emissions noted during inspection
- 194431, 10/24/07, Car shredding processing releases a brown smoke.
No violation found at the time of the inspection
- 194474, 10/25/07, Odors in the air. The smell is awful. Please contact the complainant.
Complaint handled via phone.
- 194748, 11/8/07, Burning in open without filtration, transferred by CARB
Complaint combined with #194841
- 194841, 11/13/07, Shred scrap metals that are coated with paint, solvents, oil, etc, catch fire and burn, then are sprayed with water and turns into steam releasing more pollutants into the air.
Inspector found no violations at the time of inspection
- 195311, 12/4/07, Chemical odor in the air.
Inspector did not detect any odor at the time of the inspection.
- 197873, 5/6/08, During the process of shredding, the materials covered in paints, solvents, oils, acids, bases, lead, magnesium, ignite on fire and emit carcinogens into the air without filtration. Transferred by CARB
Facility in compliance at the time of inspection.
- 198066, 5/16/08, District received call from John White of the Anaheim Fire Department. Anaheim F.D and other gov't agencies are investigating this company, he felt there are air emissions involved & wanted to discuss situation with AQMD.
Please contact complainant.
Complaint was resolved by telephone.

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Notice to Comply

There were no Notices to Comply found in District records (CLASS computer database) for the past 2 years under the name SA Recycling LLC dba Adams Steel (SARAS) or Self Serve Auto Dismantlers/Adams Steel.

Notice of Violation

P47594, 10/7/08 for late submittal of July-December 2007 Form 500-SAM and January-December 2007 Form 500-ACC, due 2/2//08 and 3/1/08 respectively; forms received on 3/12/08. Permit limit throughput exceeded in June, July and August 2008. Applicant submitted application to increase throughput limit

FACILITY DESCRIPTION

SARAS is in the business of recycling various types of ferrous and non-ferrous scrap metals from various types of equipment including but not limited to appliances, pipes, drums, machinery and automobiles.

PROCESS DESCRIPTION

Wet Shredder Aggregate (SA) is fed into the in-feed belt conveyor with receiving hopper, where it is metered out to two trommel tube feed conveyors that load the SA into one of two trommel tube screens. The trommels separate the material into two sizes: less than 5 inches and greater than five inches.

The SA that is less than five inches falls onto a conveyor belt, then onto a transfer conveyor. From that conveyor, it falls onto a shaker table. The shaker table will separate the material into less than $\frac{5}{8}$ inches (extra fine) and greater than $\frac{5}{8}$ inches (fine). The less than $\frac{5}{8}$ inch material is conveyed via two belts to a screw conveyor into the extra fines processing section of the system. The material that falls over the shaker table (+ $\frac{5}{8}$ inch material) is conveyed via belt conveyors to a pair of shaker tables in the fines processing section of the system.

The fine material is then fed onto two sets of dual eddy current systems. Using magnets, the non-ferrous metal is repelled off of the first eddy current onto a collection tote. The other non-ferrous metal that gets past the first eddy current is transferred to the second eddy current. The magnet on the first eddy current captures any ferrous material and transfers it to a belt, then to the steel recovery system via a belt. The remaining SA from the first eddy current drops onto a belt conveyor that will transfer it to the trash processing section. The second eddy current repels the non-ferrous material onto a collection tote. The remaining SA is conveyed to the trash processing section.

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The extra fine material from the shaker table is conveyed by a series of belts and a screw conveyor to a pair of shaker tables. The shaker tables spread out the extra fine SA to be fed onto the eddy current system. Using magnets, the non-ferrous metal is repelled off the first eddy current onto a collection tote. The other non-ferrous metal that gets past the first eddy current is transferred to the second eddy current. The magnet on the first eddy current captures any ferrous material and transfers it to a belt, then to a steel recovery system. The remaining SA from the first eddy current drops onto belt conveyors that will transfer it to the trash processing section. The second eddy current repels the non-ferrous material onto a belt that piles the aluminum fines. All other SA is transferred to two shakers, which spread out the material, and is then transferred to two sensors. The device uses sensors and air knives to repel any non-ferrous fines that get through the processing section. The repelled non-ferrous material is transferred to two belt conveyors, a shaker table then a sensor. Repelled non-ferrous material is collected in a tote and the trash is also collected in a tote. The SA that fall through is transferred to belt and sent to the trash processing section.

The medium-size SA falls out of the trommel tube onto one transfer conveyor. It then falls onto two shakers. From the shakers, the medium-size SA is transferred to a belt, then to a shaker. Next, the material falls into an eddy current. The repelled material is transferred to a belt, which transfers it to a large- and small-size aluminum pile. The other non-ferrous and ferrous material is transferred to a set of shakers, which transfers the material to a set of cascade sensors. The repelled material is then sent through a second set of sensors while non-repelled material drops to a belt that transfers to another belt, then to a shaker. The shaker then transfers the material to a sensor. The repelled material is transferred to a belt and sent to the mid-size sensing section of the plant.

The repelled material from the second sensor (in the mid-size section) is transferred to a belt. This material is then transferred to two additional belts before being sent to the trash processing section. The non-repelled material is transferred to a belt and reprocessed in the midsize sensing section.

Fine and mid-size ferrous material is transferred to a belt in the steel recovery section of the plant. The material is then transferred to a high-speed belt that transfers the material into a trommel tube. The trommel tube is inclined and connected to a bin. A process cyclone is connected to the trommel discharge point. A blower draws material from the trommel. The cyclone collects the unwanted material and transfers it into a belt then to the trash processing section. The heavier items fall out onto a discharge belt and are transferred to the trash processing section, then back to the fines-sensing

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section of the plant. The heavier non-ferrous and ferrous material in the tube fall out on the opposite side of the trommel and then onto a belt. Finally, the ferrous and non-ferrous material is stockpiled in a second belt.

EVALUATION

Operating Schedule – 16 hrs/day, 7 days/wk, 52 weeks/yr (Average)

- 24 hrs/day, 7 days/wk, 52 weeks/yr (Maximum)

Production Rate - 60 tons/hr, 43,200 tons/month

PM₁₀ Transfer Points- 0.0011 lb/ton (Uncontrolled)

- 0.000046 lb/ton (Controlled)

PM₁₀ Screening - 0.0087 lb/ton (Uncontrolled)

- 0.00074 lb/ton (Controlled)

PM₁₀ emission factors from AP-42 Process 11.19.2-2 (Crushed stone factor)

Per attached spreadsheet, PM₁₀ emissions for the above system are:

R1 = 3.28327 lb/hr

R2 = 0.21825 lb/hr

Max Daily = 78.7986 lbs_{uncontrolled}
5.23809 lbs_{controlled}

RULES COMPLIANCE

RULE 212: Public Notification

Paragraph 212 (c)(1) Requires a public notice for all new or modified permit units that may emit air contaminants located within 1,000 feet from the outer boundary of a school. The closest school, Olive Elementary School located at 8612 Orange Olive Road, is 0.60 miles away from the facility. A 30-Day Public Notice is not required under this paragraph for SARAS.

Paragraph 212(c)(2) The equipment will not result in on-site emission increase exceeding the daily maximums as specified in the table in Rule 212(g). Therefore, a 30-day public notice period will not be required under this paragraph.

Paragraph 212(c)(3) Public notice will not be required under this paragraph there are no known Toxic emissions from this process.

RULE 401: Compliance is expected. Visible emissions are not expected from the proper operation of this equipment.

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RULE 402: Compliance is expected. Nuisance is not expected with the proper operation and maintenance of this equipment.

RULE 405 In compliance with this rule. For a process rate of 60 tons per hour, this rule allows an emission rate of over 17.5 lb/hr. The emission rate for this process is 0.22 lbs/hr

REG XIII **RULE 1303(a)(1) BACT** For Bulk Solid Material Handling-Other, PM₁₀ BACT is water spray or adequate material moisture. BACT is met.

RULE 1303(b)(1) Modeling This process is below the screening level allowed in Table A-1. No further analysis is required.

PM₁₀ process rate of 0.22 lb/hr < PM₁₀ Table A-1 of 0.41 lb/hr.

RULE 1303(b)(2) Offsets are not required. PM₁₀ emissions are below the 4 ton/year threshold.

RULE 1401 Compliance is expected. There are no known Toxic emissions from this process.

REG XXX This is a De Minimis Significant Permit Revision to the Title V permit. EPA 45-day review period is required.

RECOMMENDATION

Issue a Permit to Operate for the Material Recovery Plant as described below once the EPA 45-day review has ended:

APPLICATION NO. 487633

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. TOTAL QUANTITY OF MATERIAL PROCESSED BY THIS EQUIPMENT SHALL NOT EXCEED 43,200 TONS IN ANY ONE CALENDAR MONTH.
[RULE 1303 (b)(2) - OFFSETS]
4. SUFFICIENT WATER SHALL BE SPRAYED AS NEEDED AT ALL TRANSFER POINTS AND SCREENS TO PREVENT EXCESSIVE DUST EMISSIONS.
[RULE 1303 (a)(1) – BACT]

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5. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH THE ABOVE PERMIT CONDITIONS. THE RECORDS SHALL BE KEPT FOR A MINIMUM OF THE LAST TWO YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a)(4)]

Periodic Monitoring:

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST; OR
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
 - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;

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- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.
- [RULE 3004 (a) (4)]

Emissions and Requirements:

- 7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

S.A. RECYCLING, ANAHEIM
ID# 153095
PM10 EMISSIONS

A/N	Equipment	PM10 current lb/day	PM10 current lb/yr	Previous PM10 lb/day	Previous PM10 lb/yr	Previous Permit	Change lb/day	Change lb/yr
473504	Waste Gasoline Storage Tank	0	0	0	0	G1160	0	0
482553	Shredder	4	1457	4	1457	a/n 424984	0	0
482555	Dry Filter	0	0	0	0	a/n 484985	0	0
482318	Material Separation	5.24	1886	1	260	M33067	4.24	1626
482325	Cement Silo #1	0.26	81	0.1	10.4	D63904	0.16	70.6
482328	Cement Silo #2	0.26	81	0	0	None	0.26	81
482329	Cement Blending	1.28	437	0	0	None	1.28	437
482330	Misc. Conveying #1	1.22	444	0	0	None	1.22	444
482331	Misc. Conveying #2	1.22	444	0	0	None	1.22	444
482332	Oil/ Water Separator	0	0	0	0	F46124	0	0
495358	Cement Silo #3	0.13	41	0	0	None	0.13	41
495678	APC System- RTO	0.02	6.24	0	0	None	0.02	6.24
	TOTAL	13.63	4877.24	5.1	1727.4		8.53	3149.8